

HD SDI Galvanic Isolator, Surface mount **LF233**

Technical Data

The L E N LF233 is a miniature surface mount Galvanic Isolator, providing full quality transmission of the HD SDI serial digital video signal format whilst blocking interference, DC bias and related problems.

Our L E N LF233 Isolator provides safeguarding both from signal distortion and against equipment damage by static and Earth Loop DC voltage build up, to meet these requirements. It is built in a surface mount package.

Transparent to the HD SDI and lower signal standards, the LF233 Isolator is designed to be mounted internally within equipment.

Key Features & Benefits

- Full DC isolation between equipment
- Totally passive device, no power required
- Maintenance free
- Very low loss, minimal signal attenuation
- Protects equipment from damage by DC static and earth loop voltage build up
- Prevents errors due to differences in earth potential along the signal path
- No distortion of the HD-SDI signal
- Can be used with the SD-SDI and ASI signal formats
- Small and lightweight



Application Notes are available on request

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Impedance: 75 Ohms +/- 3 Ohms
Signal Attenuation: < 0.1 dB at 0.5 MHz
 < 0.15 dB at 500 MHz
 < 0.25 dB at 1.0 GHz
 < 0.35 dB at 1.5 GHz
 < 0.45 dB at 2.0 GHz
Bandwidth: < 0.5 MHz to > 2.0 GHz
Amplitude roll-off: < 0.5 dB to 2.0 GHz

Return Loss: > 20 dB across Bandwidth
DC Breakdown Voltage: > 100 volts

Dimensions: 0.60" x 0.60" x 0.25"

Weight: 1g.

Resistance at maximum voltage:
 50 M-Ohm per isolator at 100V

Operating Temperature < -40 to > +85 C